



SNS COLLEGE OF TECHNOLOGY

Coimbatore-37.

An Autonomous Institution



COURSE NAME : 19CSE401 & Software Project Management

IV YEAR/ V SEMESTER

UNIT – 1 INTRODUCTION

Topic: Introduction

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Introduction

Unit 1 Syllabus

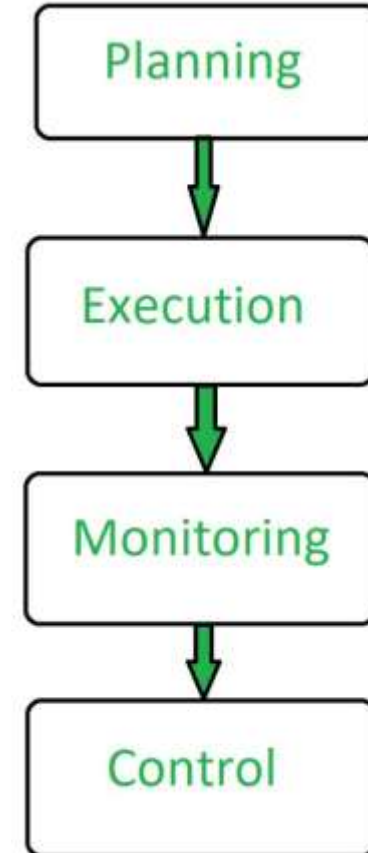
- Introduction
- Importance of Software Project Management
- Software engineering problem
- Software product and its attributes
- Definition of a Software Project (SP)
- SP Vs. Other types of projects activities covered by SPM
- Categorizing sps
- Project management cycle
- SPM framework, types of project plan.



INTRODUCTION

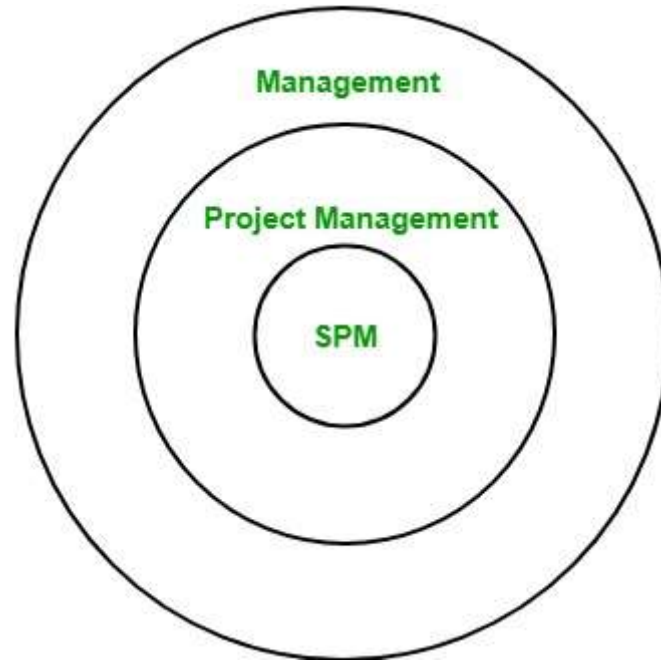
Software Project Management (SPM) is a proper way of planning and leading software projects.

It is a part of project management in which software projects are planned, implemented, monitored, and controlled.





INTRODUCTION





INTRODUCTION

- **Software Project Management (SPM)** is a sub-field of Project Management in which software projects are planned, implemented, monitored and controlled.
- It consists of three terms: Software, Project and Management.
 - **Software** includes a set of programs, documentation and user manual for a particular software project. So, it is basically the complete procedure of the software development starting from the requirement gathering phase and extending to testing and maintenance.
 - **Project** means a planned activity which consists of several well defined tasks.
 - **Management** makes sure that the product comes out as planned.



INTRODUCTION

- There are many constraints of the software projects but the main and fundamental constraints includes: **Time, Cost and Quality.**
- Any one of the two factors can severely affect the third one.
- Therefore, Software Project Management is essential to develop software projects within time and the specified budget and that too of good quality.





INTRODUCTION

Software Project Manager:

Software Project Manager is generally never directly involved in producing the end product but he controls and manages the activities involved in the production.

- He is aware of all the phases of *Software Development Life Cycle* that the software would go through.





INTRODUCTION

- **Responsibilities of software project manager:**
 - Proper project management is essential for the successful completion of a software project and the person who is responsible for it is called project manager.
 - To do his job effectively, the project manager must have certain set of skills.
 - This section discusses both the job responsibilities of project manager and the skills required by him.



INTRODUCTION

- **Managing people:**
 - Acts as a project leader
 - Communication with stakeholders
 - Manages human resources
- **Managing project:**
 - Monitors progress and performance
 - Risk analysis at every phase
 - Manages time and budget constraint
- **Job Responsibilities:**
 - Involves with the senior managers in the process of appointing team members.
 - Builds the project team and assigns tasks to various team members.
 - Responsible for effective project planning and scheduling, project monitoring and control activities in order to achieve the project objectives.
 - Acts as a communicator between the senior management and the development team and internal and external stakeholders.
 - Effectively resolves issues that arise between the team members by changing their roles and responsibilities.
 - Modifies the project plan (if required) to deal with the situation.

Ref link:

<https://www.geeksforgeeks.org/software-engineering-responsibilities-of-software-project-manager/>



INTRODUCTION

- **In other words,**
- **Software Project Management is the process of**
 - **planning,**
 - **organizing,**
 - **controlling and**
 - **delivering software projects effectively.**
- **It provides a framework for managing software development activities from start to finish.**
- **This includes defining project requirements, creating a project plan, allocating resources and tracking progress towards completion.**
- **Ref link: <https://oboloo.com/blog/what-is-the-importance-of-software-project-management/>**

